SERVICE MANUAL

AD5250

Amplifier Stereo Integra

Sherwood

Specification

Power Output, Continuous RMS with no more than 0.03% THD
- at 8 ohm 1kHz 53W
- at 8 ohm 20—20,000Hz 50W

Intermodulation Distortion, 60Hz:7kHz =4:1 SMPTE
- 50W output at 8ohm 0.03%

Damping Factor at 1kHz, 8ohm 50

Input Sensitivity for 50W Output at 8 ohm 1kHz
- Phono 2.5mV
- CD/Video/Tuner 150mV

Phono Preamp Input Overload
- at 1kHz 0.1% THD 140mV
- at 10KHz 0.1% THD 670mV

Signal to Noise Ratio, IHF "A" Wtd Wtd/Unwtd
- Phono 75/65dB
- CD/Video 98/88dB

Frequency Response
- Phono, RIAA 30—20,000Hz ..... ±0.5dB
- CD/Video at 1W, −3dB ..... 5Hz—50kHz

5 Band Equalizer Control
- (60Hz, 250Hz, 1kHz, 4kHz, 16kHz) ..... ±10dB

Channel Separation at CD/Video input Shorted
- 100Hz 50dB
- 1kHz 45dB
- 10kHz 40dB

Power Consumption ..... MAX 230W

Dimension(W×H×D) ..... 440×85×245mm

Weight 5kg

NOTE: Design and specifications subject to change without notice for improvements.

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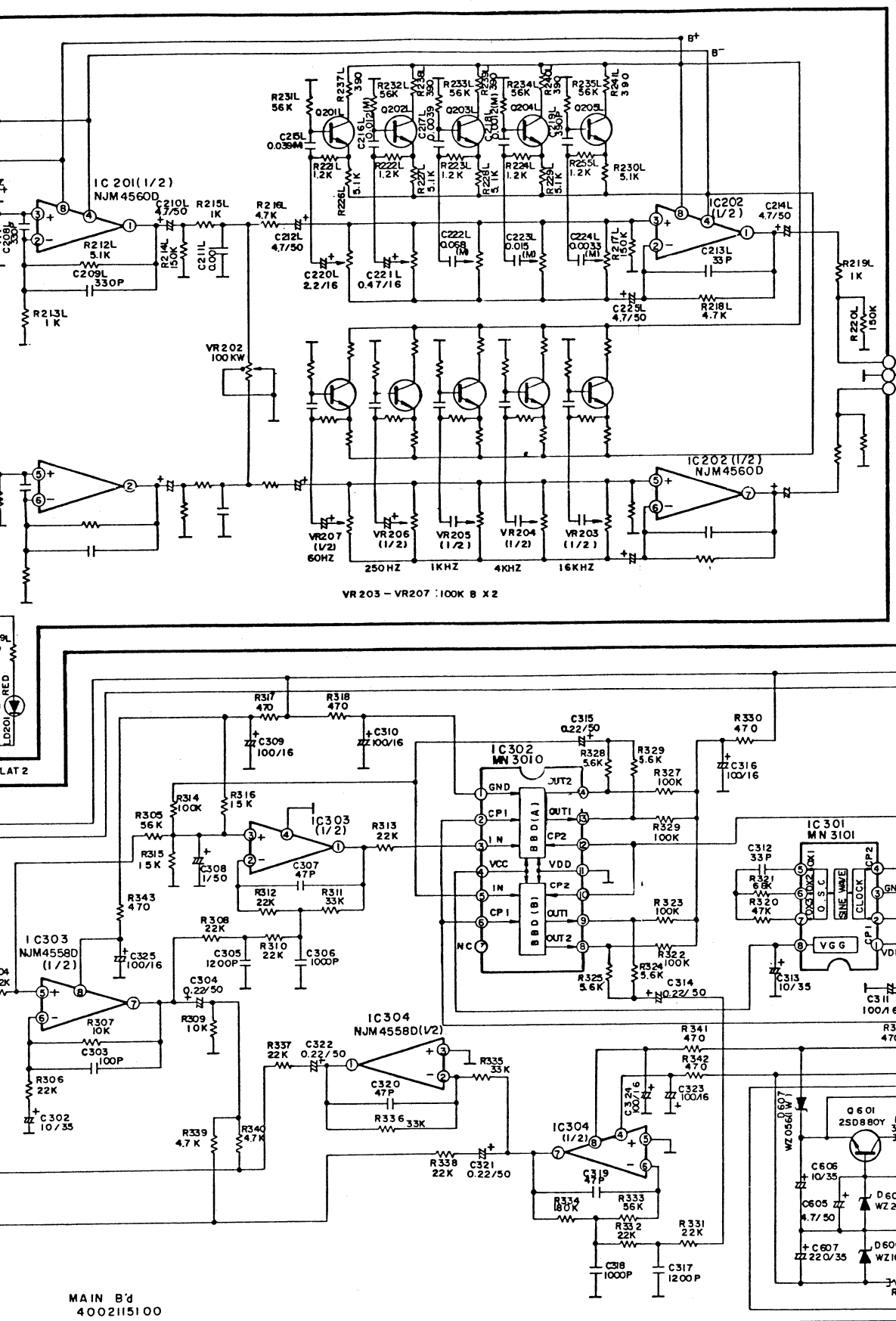
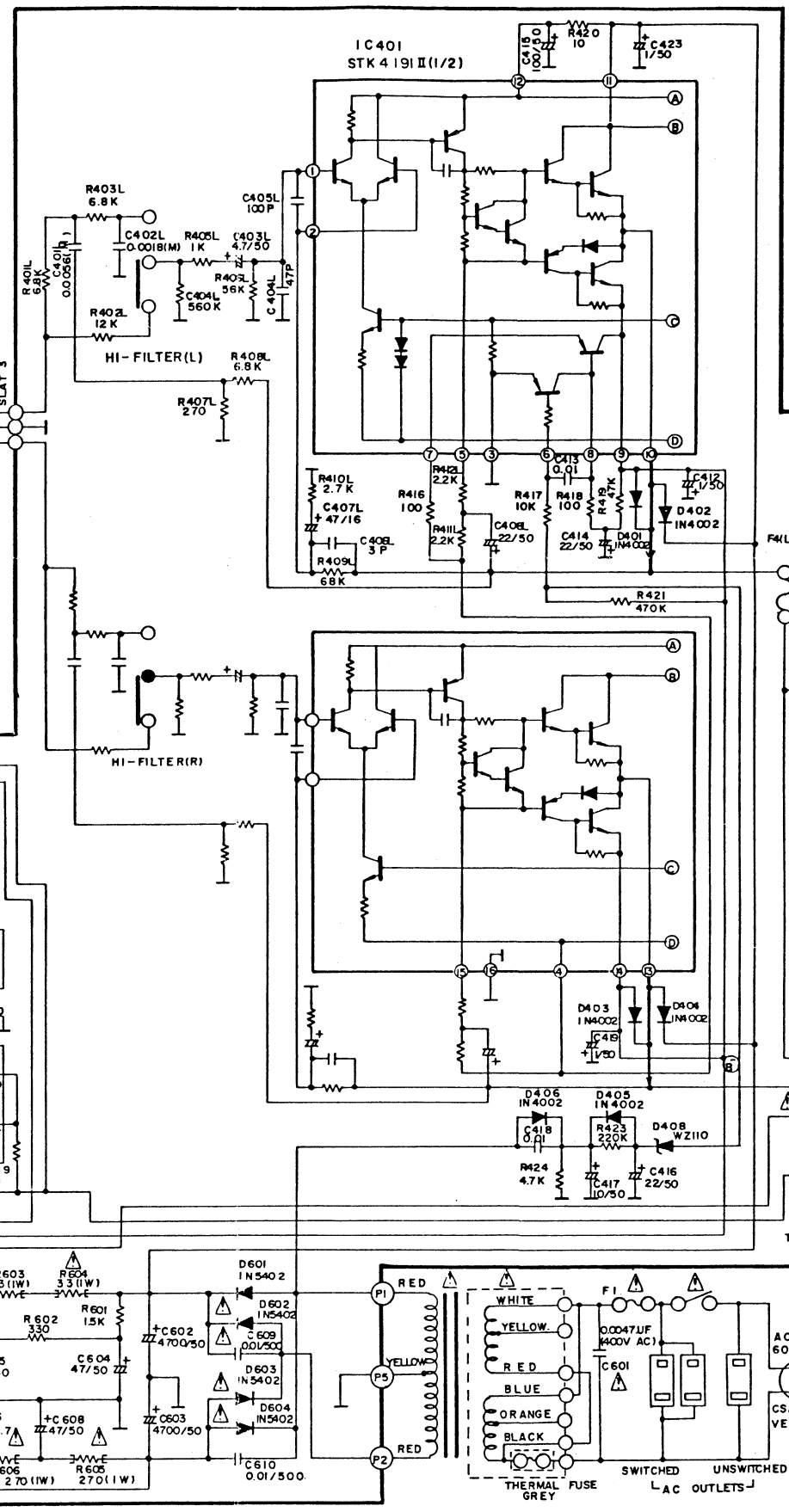
EQ B'd
4002115130
IC 101(1/2)
NJM4558DD
IC 201(1/2)
NJM4560D
IC303
NJM4558D
(1/2)
IC303
(1/2)
IC304
NJM4558D(1/2)
PHONO
TUNER
CD/VIDEO
TAPE
CD/VIDEO TUNER PHONO
TAPE
MONO
STEREO
MODE
SYNTHETIC
IN
OUT
SLAT 4
SLAT3
SLAT 2
VR202
100KW
VR207
(1/2)
60HZ
VR206
(1/2)
250HZ
VR205
(1/2)
1KHZ
VR203 – VR207 : 100K B X
MAIN B'd
4002115100
2SD880Y
NJM 4558DD
NJM4560D
MN 3101
KTC1815Y
STK 4162 II
BA 6137
MN3010
WHITE
YELLOW
RED
BLUE
ORANGE
BLACK
120
100
0
F1
F2
AC100V/22
60HZ
100V ⟷ 220V
VOLTAGE SELECTOR

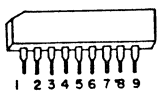
C D E F

Schematic Diagram

AD5250







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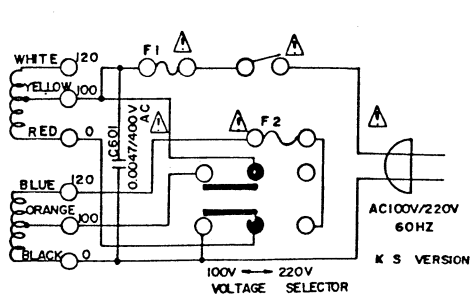

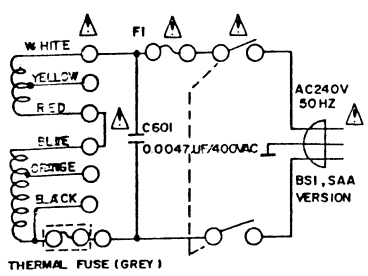

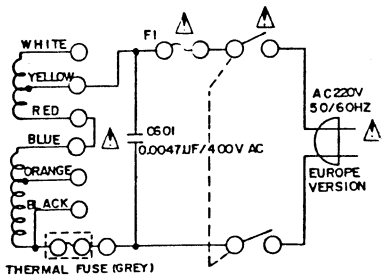

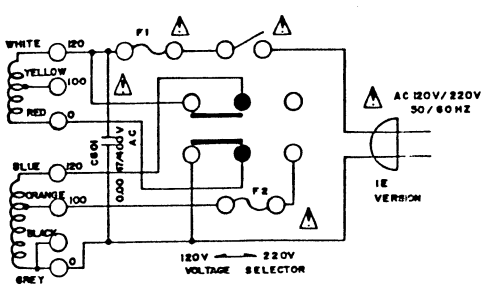

SERVICE INFORMATION

1. RESISTANCE VALUES ARE INDICATED IN OHMS UNLESS OTHERWISE SPECIFIED. (K = 1,000. M = 1,000,000)
2. CAPACITANCE VALUES ARE SHOWN IN MICROFARADS UNLESS OTHERWISE NOTED. (P = MICRO - MICROFARADS)
3. COMPONENT VALUES ARE SUBJECT TO CHANGE WITHOUT NOTICES.
4. ALL VOLTAGES ARE REFERENCED TO GROUND UNDER THE FOLLOWING CONDITIONS:
   - D C : NO SIGNAL EXCEPT WHERE INDICATED.
   - [A C] : R M S (AT 1KHZ, 8 OHM LOAD, FULL SIGNAL)
5. [PRECAUTIONS]
   - A) ALL REPLACEMENT COMPONENTS IDENTIFIED BY ⚠ MUST BE REPLACED ONLY WITH ORIGINAL TYPE SPECIFIED BY THE MANUFACTURER, AND INSTALLED AS THE ORIGINAL WITH SPACERS AND POSITIONED AWAY FROM ADJUCENT COMPONENTS WHERE APPLICABLE.
   - B) ALL SOLDERING MUST BE DOWN IN A PROFESSIONAL MANNER USING SOLDER WITH ROSIN CORD ONLY.
   - C) ALL COVERS, SHIELDS AND INSULATING SPACERS MUST BE REPLACED BEFORE RETURNING APPLIANCE TO CUSTOMER.
   - D) A DAMAGED POWER SUPPLY CORD MUST BE REPLACED BEFORE RETURNING APPLIANCE CUSTOMER.
   - E) A DIELECTRIC TEST CONSISTING OF 1080V AC 60HZ IS TO BE APPLIED BETWEEN BOTH BLADES OF THE POWER SUPPLY CORD ATTACHMENT PLUG AND THE EXPOSE CONDUCTIVE SURFACE OF THE APPLIANCE FOR A PERIOD OF NOT LESS THAN ON SECOND BEFORE RETURNING APPLIANCE TO CUSTOMER.
6. THE -/\/\/\- MARKED RESISTORS ARE MOUNTED ABOVE THE P.C.B. ON SLEEVES.

C D E F

tic Diagram
AD5250

FUSE \ VERSION	KS VERSION 100V	KS VERSION 220V	UL, CSA VERSION	EUROPE VERSION
PRIMARY	KS4 A	KS2.5A	SJUL 4 A	SEMKO T2A
SPEAKER	KS5A	KS5A	SJUL 5A	SEMKOF5A

IC401 STK 4191 II(1/2)

IC202 (1/2) NJM4560D

IC301 MN 3101

HI-FILTER(L)

HI-FILTER(R)

HEAD PHONE

SPEAKER JACK B'd 4002115110

IC501 BA6137L

IC 502 BA6137 R

LEVEL METER B'd 4002115150

TO FUNCTION INDICATOR

ON SPEAKER

OFF

AC120V 60HZ CSA, UL VERSION

SWITCHED AC OUTLETS

UNSWITCHED

THERMAL FUSE GREY

AC240V 50HZ BSI, SAA VERSION

FUSE (GREY)

AC220V 50/60HZ EUROPE VERSION

THERMAL FUSE (GREY)

AC 120V/220V 50/60HZ IE VERSION

120V ⟷ 220V VOLTAGE SELECTOR

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6. THE ⏦ MARKED RESISTORS ARE MOUNTED ABOVE THE P.C.B. ON SLEEVES.

Parts List & Top view of P.C.Boards

MAIN BOARD 4002115101

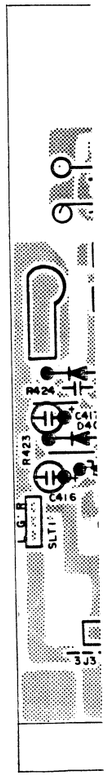
Ref. No.	Part No.	Description	Position
● DIODE			
D406	2058106100	IN 4002	A
D405			A
D408	2058520122	WZ 11BM	A
D601	2058100105	IN 5402	A
D602			A
D603			A
D604			A
D605	2058520113	WZ 24.0	A
D606	2058520120	WJ 167	A
D401	2058106100	IN 4002	B
D402			B
D403			B
D407	2058520105	WZ 6.2BM	C
D404	2058106100	IN 4002	C
4J18	2058520104	WZ 056	
● RESISTOR			
R424	3069472970	C.F 4.7K ⅛W	A
R602	3069331970	C.F 330 ⅛W	A
R401L/R	3069682970	C.F 6.8K ⅛W	A
R403L/R			A
R402L/R	3069123970	C.F 12K ⅛W	A
R603. R604	3039330472	M.O 33 1W	A
R605. R606	3039271472	M.O 270 1W	A
R426	3039181572	M.O 180 2W	A
R601	3069152970	C.F 1.5K ⅛W	B
R420	3069100970	C.F 10 ⅛W	B
R409L	3069683970	C.F 68K ⅛W	B
R404L	3069564970	C.F 560K ⅛W	B
R406R	3069563970	C.F 56K ⅛W	C
R404R	3069564970	C.F 560K ⅛W	C
R405R	3069102970	C.F 1K ⅛W	C
R409R	3069683970	C.F 68K ⅛W	C
R410R	3069222970	C.F 2.2K ⅛W	C
R411R			C
R412R			C
R417R	3069103970	C.F 10K ⅛W	C
R416	3069101970	C.F 100 ⅛W	C
R418			C
R419	3069473970	C.F 47K ⅛W	C
R421	3069474970	C.F 470K ⅛W	C
R408R	3069682970	C.F 6.8K ⅛W	C
R407R	3009221970	C.F 220 ⅛W	C
R407L	3009221970	C.F 220K ⅛W	B
R408L	3069682970	C.F 6.8K ⅛W	B
R410L	3069222970	C.F 2.2K ⅛W	B
R411L			B
R412L			B
R406L	3069563970	C.F 56K ⅛W	B
R405L	3069102970	C.F 1K ⅛W	B
R207L			B
R336	3069333970	C.F 33K ⅛W	D
R311			D
R343	3069471970	C.F 470 ⅛W	D
R342			D
R318			D
R319			D
R330			D
R341			D
R109L			D
R314	3069104970	C.F 100K ⅛W	D
R303			D
R327			D
R326			D
R323			D
R322			D
R102L/R			D
R108L/R			D
R313	3069223970	C.F 22K ⅛W	D
R337			D
R338			D
R310			D
R312			D
R306			D
R308			D
R343	3069472970	C.F 4.7K ⅛W	D
R340			D
R301			D
R302			D

Ref.No.	Part No.	Description	Position
R304	3069222970	C.F 2.2K ⅛W	D
R208L/R			D
R309	3069103970	C.F 10K ⅛W	D
R307			D
R315	3069153970	C.F 15K ⅛W	D
R316			D
R305	3069563970	C.F 56K ⅛W	D
R333			D
R328	3069562970	C.F 5.6K ⅛W	D
R329			D
R324			D
R325			D
R320	3069473970	C.F 47K ⅛W	D
R321	3069683970	C.F 68K ⅛W	D
R206L/R	3069102970	C.F 1K ⅛W	D
R204L/R			D
R202L/R			D
R101L/R			D
R407L/R			D
R201L/R	3069224970	C.F 220K ⅛W	D
R203L/R			D
R205L/R			D
R109R	3069101970	C.F 100 ⅛W	D
R104L/R	3069564970	C.F 560K ⅛W	D
R105L/R	3069433970	C.F 43K ⅛W	D
R106L/R	3069821970	C.F 820 ⅛W	D
R103L/R	3069913970	C.F 91K ⅛W	D
● CAPACITOR			
C418	3579103530	C. 0.01μF	A
C417	3479210071	E. 10/50	A
C416	3479222071	E. 22/50	A
C606			A
C609	3609334120	M. 0.33μF	A
C610			A
C604	3479247971	E. 4.7/50	A
C605			A
C608			A
C607	3409222161	E. 220/35	A
C401L/R	3679562120	M. 0.0056/100	A
C402L/R	3679182120	M. 0.0018/100	A
C405R	3579101130	C. 100P	C
C404R	3579470130	C. 47P	C
C406R	3579309030	C. 3P	C
C415	3409210171	E. 100/50	C
C602	3419547295	E. 4700/50	B
C603			B
C405L	3579102130	C. 100P	B
C413	3509103450	C. 0.01μF	B
C406L	3579309030	C. 3P	B
C404L	3579470130	C. 47P	B
C423	3479210971	E. 1/50	B
C412			B
C407L	3479247031	E. 47/16	B
C403L	3479247971	E. 4.7/50	B
C408L	3479222071	E. 22/50	B
C403R	3479247971	E. 4.7/50	C
C407R	3479247031	E. 47/16	C
C419	3479210971	E. 1/50	C
C414	3479222071	E. 22/50	C
C408R			C
C319	3579470130	C. 47P	C
C320			C
C307			C
C303	3579101130	C. 100P	C
C306			C
C203L/R	3579221130	C. 220P	C
C202L/R			C
C201L/R			C
C101L/R	3579151130	C 150P	C
C102L/R	3579680130	C. 68P	C
C104L/R	3579100030	C. 10P	C
C312	3579330130	C. 33P	C
C204L/R	3579271130	C. 470P	D
C318	3579102530	C. 1000P	D
C103L/R	3479247971	E. 4.7/50	D
C108L/R	3479247021	E. 47/10	D
C109L/R	3479233871	E. 10.33/50	D
C111L/R	3479210131	100/16	D
C323			D
C324			D

Ref. No.	Parts No.	Description	Position
C325	3479210131	E. 100/16	D
C310			D
C309			D
C311			D
C316			D
C322	3479222871	E. 0.22/50	D
C321			D
C304			D
C314			D
C315			D
C302	3479210061	E. 10/35	D
C313			D
C308	3479210971	E. 1/50	D
C205L/R	3479147871	E. 0.47/50	D
C107L/R	3479182120	M. 0.0018	D
C106L/R	3679562120	M. 0.0056	D
C110L/R	3679152120	M. 00 0.0015	D
C317	3679122120	M. 0.0012	D
C305			D
C105L/R	3579222530	C. 2200P	D
● FUSE			
F3(R)	5508403034	FUSE F5A	A
F4(R)			A
● IC			
IC303	2168220104	IC NJM 4558DD	D
IC304			D
IC201			D
IC302	2168024106	IC MN 3010	D
IC301	2168010102	IC MN 3101	D
● COIL			
L101L/R	2648601470	Coil Inductor 50μH	D

H/P BOARD 4002115130

Ref No.	Parts No.	Description	Position
● RESISTOR			
R415L/R	3039271572	M.O 270 2W	

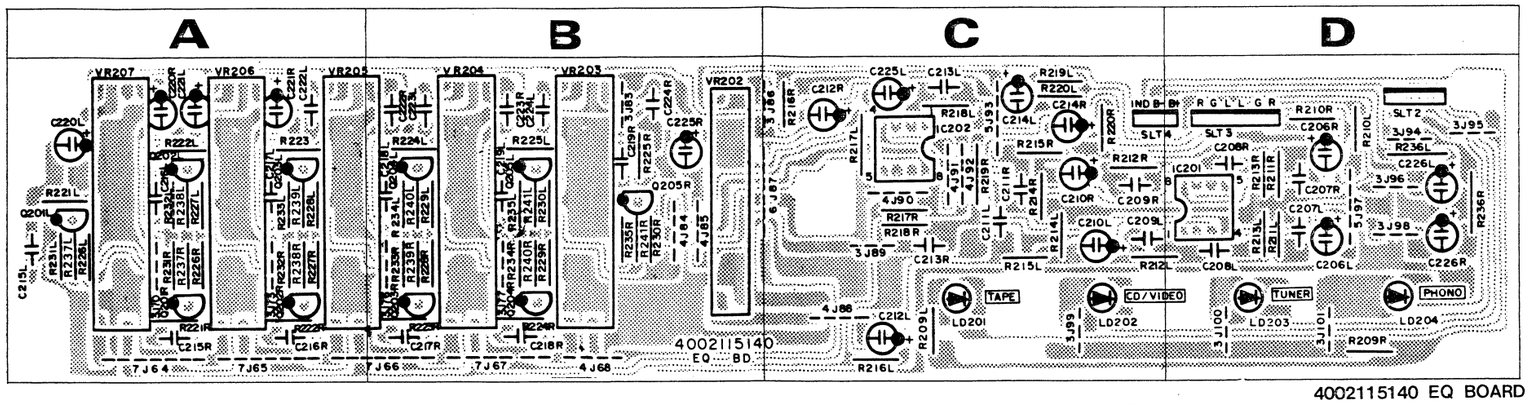


Parts List & Top View of P.C Boards

EQ BOARD 4002115140

Ref. No.	Part No.	Description	Position
● TRANSISTOR			
Q201L/R	2208606104	TR KTC 1815Y	A
Q202L/R			A
Q203L/R			A
Q204L/R	2208606104	TR KTC 1815Y	B
Q205L/R			B
● IC			
IC202	2168220103	IC NJM 4560D	C
IC201	2168220103	IC NJM 4560D	D
● DIODE			
LD203	2308220306	LED SLR 54GC 3GN	D
LD204			D
LD201	2308220109	LED SLR54URC 3-RD	C
LD202	2308220306	LED SLR 54GC 3GN	C
● RESISTOR			
R231L/R	3069563970	C.F 56K 1/5W	A
R232L/R			A
R233L			A
R237L/R	3069391970	C.F 390 1/5W	A
R238L/R			A
R239L			A
R226L/R	3069512970	C.F 5.1K 1/5W	A
R227L/R			A
R228L			A
R221L/R	3069122970	C.F 1.2K 1/5W	A
R222L/R			A
R223L			A
R223R	3069122970	C.F 1.2K 1/5W	B
R224L/R			B
R225L/R			B
R233R	3069563970	C.F 56K 1/5W	B
R234L/R			B
R235L/R			B
R239R	3069391970	C.F 390 1/5W	B
R240L/R			B
R241L/R			B
R228R	3069512970	C.F 5.1K 1/5W	B
R229L/R			B
R230L/R			B
R212L/R			D
R213L/R	3069102970	C.F 1K 1/5W	D
R210L/R			D
R211L/R	3069154970	C.F 150K 1/5W	D
R209R	3069561970	C.F 560 1/5W	D
R236L/R	3069471970	C.F 470 1/5W	D
R216L/R	3069472970	C.F 4.7K 1/5W	C
R218L/R			C
R217L/R	3069154970	C.F 150K 1/5W	C
R214L/R			C
R220L/R			C
R215L/R	3069102970	C.F 1K 1/5W	C
R219L/R			C
R209L	3069561970	C.F 560 1/5W	C
● CAPACITOR			
C220L/R	3658225201	T 2.2/16	A
C201L/R	3658474201	T 0.47/35	A
C215L/R	3679393120	M 0.039/100	A
C216L/R	3679123120	M 0.012/100	A
C217L	3679392120	M 0.0039/100	A
C222L	3609683120	M 0.068/100	A
C222R	3609683120	M 0.068/100	B
C223L/R	3679153120	M 0.015/100	B
C224L/R	3679332120	M 0.0033/100	B
C225R	3409247971	E 4.7/50	B
C218LR	3679122120	M 0.0012/100	B
C217R	3679392120	M 0.0039/100	B
C219L/R	3579391130	C390P	B
C212L/R	3409247971	E 4.7/50	C
C225L			C
C214L/R			C
C210L/R			C
C213L/R	3579330130	C 33F	C
C211L/R	3579102530	C 1000P	C
C206L/R	3409210971	E 1/50	D
C226L/R	3409222041	E 22/25	D

Ref.No.	Part No.	Description	Position
C207L/R	3579101130	C 100P	D
C208L/R	3579331130	C 330P	D
C209L/R			D



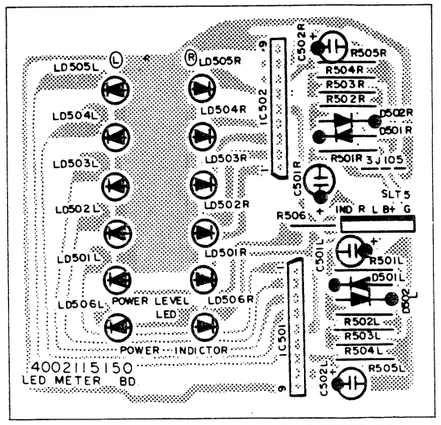
4002115140 EQ BOARD

LED METER BOARD 4002115150

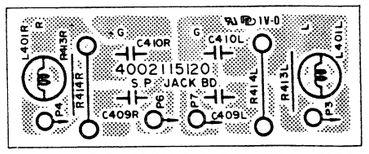
Ref No.	Part No.	Description	Position
● IC			
IC501,IC502	2168022103	IC BA6137	
● DIODE			
LD501L/R	2308220507	LED SLV 56DC	
LD502L/R			
LD503L/R			
LD506L/R			
LD504L/R			
LD505L/R			
D501L/R	2058306101	DIODE IN 4148	
● RESISTOR			
R501L/R	3069473970	C.F 51K 1/5W	
R502L/R	3069391970	C.F 390 1/5W	
R503L/R	3069563970	C.F 56K 1/5W	
R503L/R	3069563970	C.F 56K 1/5W	
R504L/R	3069223970	C.F 22K 1/5W	
R505L/R	3069103970	C.F 10K 1/5W	
R506	3069132970	C.F 1.3K 1/5W	
● CAPACITOR			
C501L/R	3409222871	E 0.22/50	
C502L/R	3409247972	E 4.7/50	

SPK JACK 4002115120

Ref No.	Parts No.	Description	Position
● RESISTOR			
R401L/R	2648001010	Coil Inductor 0.5μH	2
R413L/R	3009100273	C.F 10 1/4W	2
R414L/R	3039100472	M.O 10 1W	2
● CAPACITOR			
C409L/R	3509473530	C 0.047μF 50V	2
C410L/R	3579473530	C.T 0.047μF 50V	2



LED METER BD
4002115150

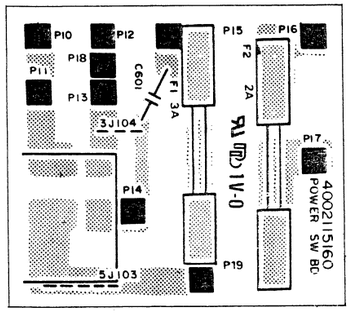


S.P JACK BOARD 4002115120

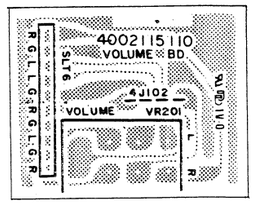
POWER SWITCH BOARD
4002115170

SW BOARD 4002115660

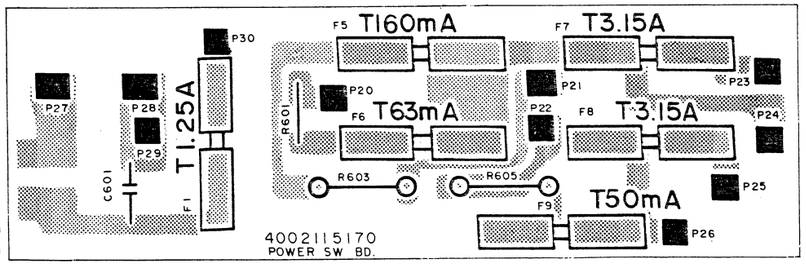
Ref No.	Parts No.	Description	Position
● FUSE			
F1	5808302434	TL 20 2A 250V	1
● CAPACITOR			
C601	3549472410	C 0.0047μF 400V	1



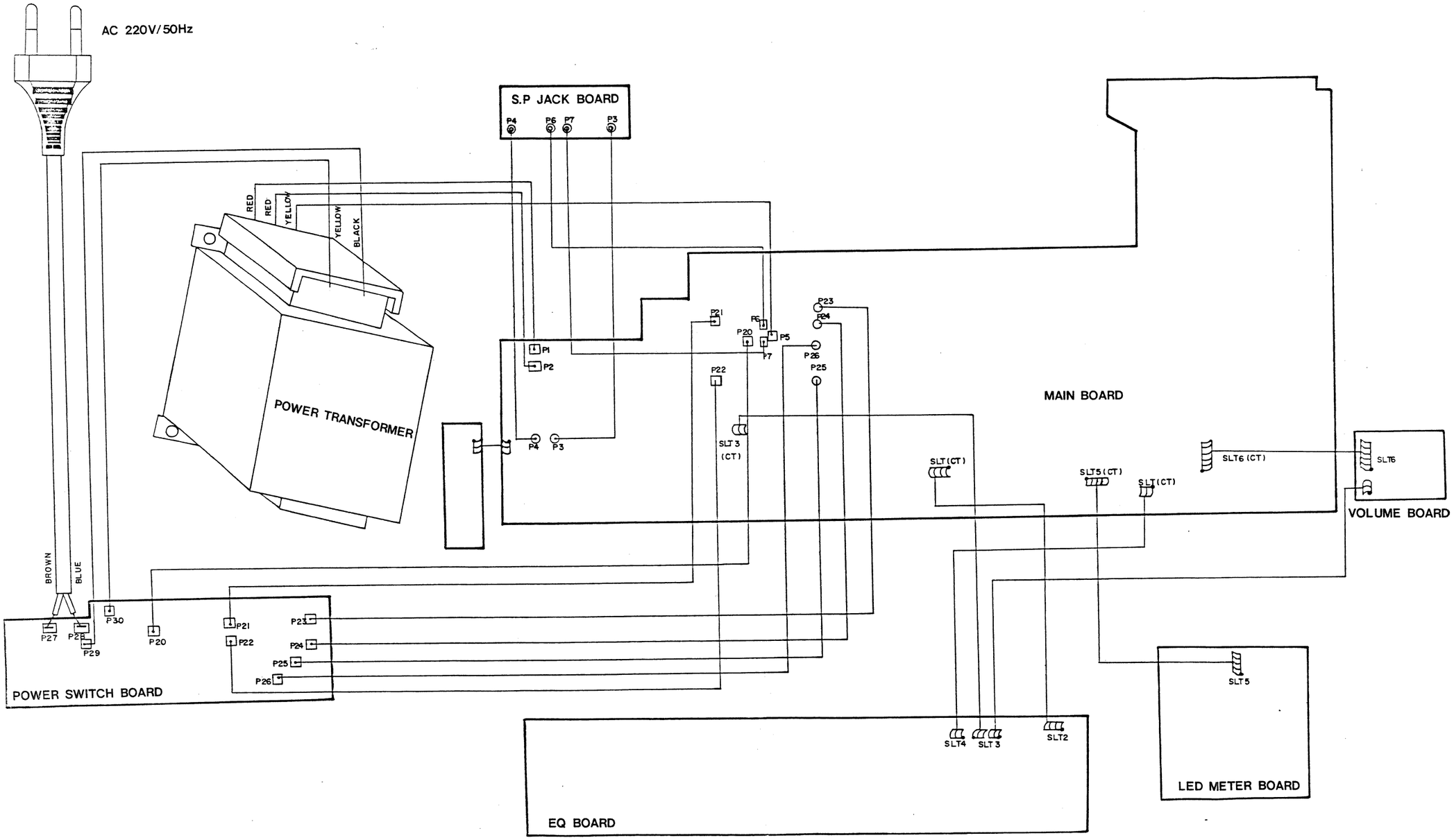
POWER SWITCH BOARD
4002115160



VOLUME BOARD 4002115110



Point to Point Wiring Diagram

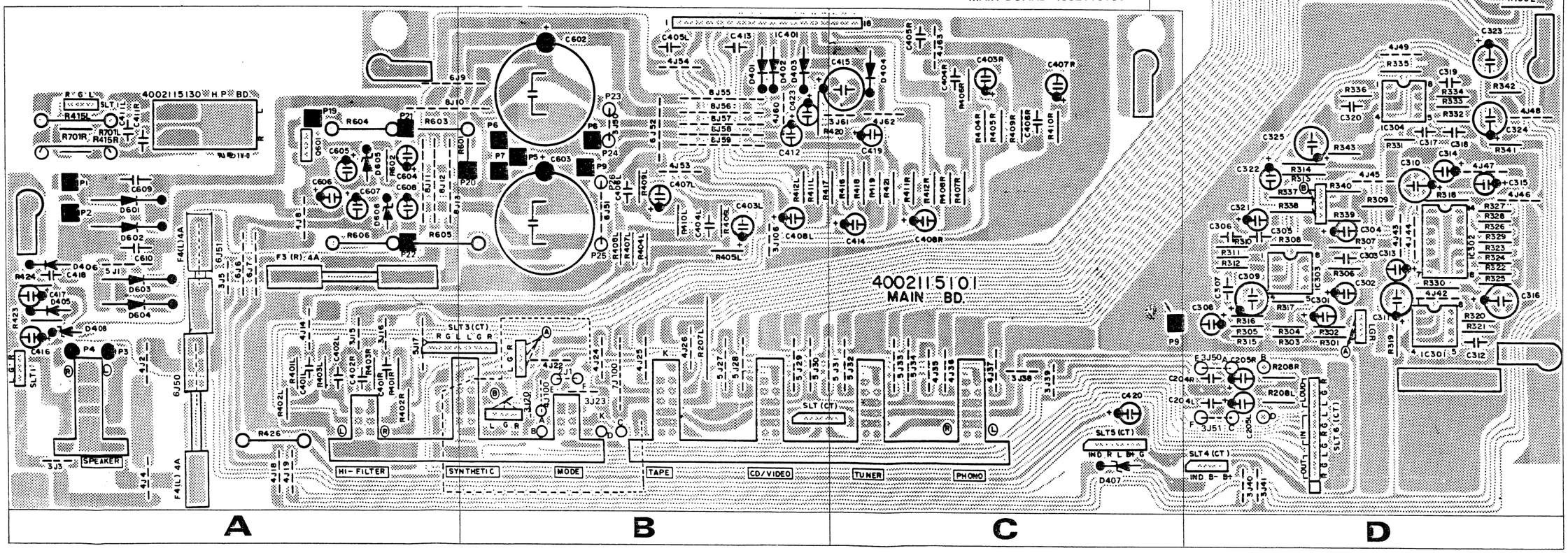


Pa

EQ E

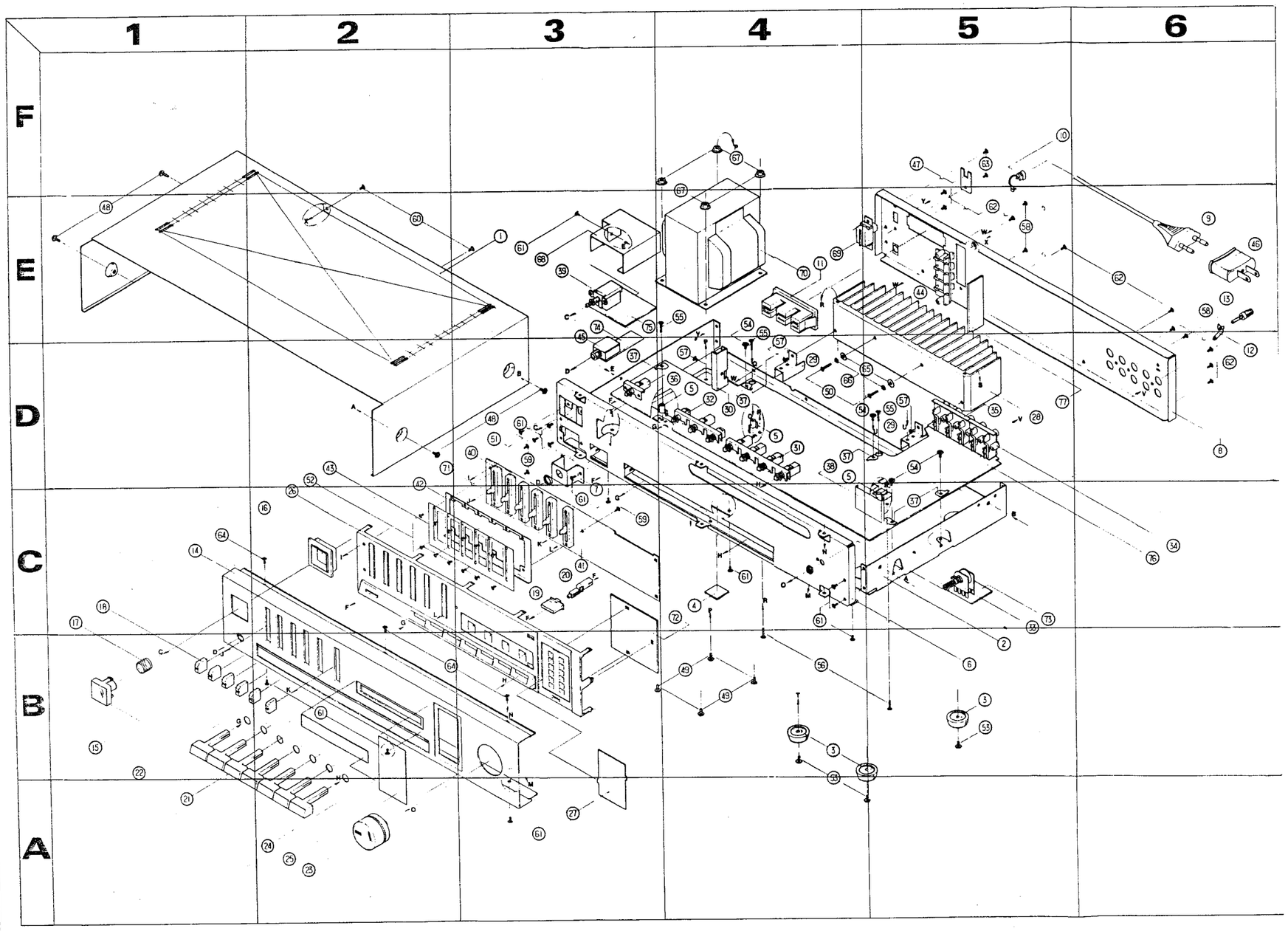
Ref. N
● TRANS
Q201L/I
Q202L/I
Q203L/I
Q204L/I
Q205L/I
● IC
IC202
IC201
● DIODE
LD203
LD204
LD201
LD202
● RESIS
R231L/I
R232L/I
R233L
R237L/I
R238L/I
R239L
R226L/I
R227L/I
R228L
R221L/
R222L/
R223L
R223R
R224L/
R225L/
R233R
R234L/
R235L/
R239R
R240L/
R241L/
R228R
R229L/
R230L/
R212L/
R213L/
R210L/
R211L/
R209R
R236L/
R216L/
R218L/
R217L/
R214L/
R220L/
R215L/
R219L/
R209L
● CAPA
C220L/I
C201L/I
C215L/I
C216L/I
C217L
C222L
C222R
C223L/I
C224L/I
C225R
C218LR
C217R
C219L/I
C212L/I
C225L
C214L/
C210L/
C213L/I
C211L/I
C206L/I
C226L/

MAIN BOARD 4002115101



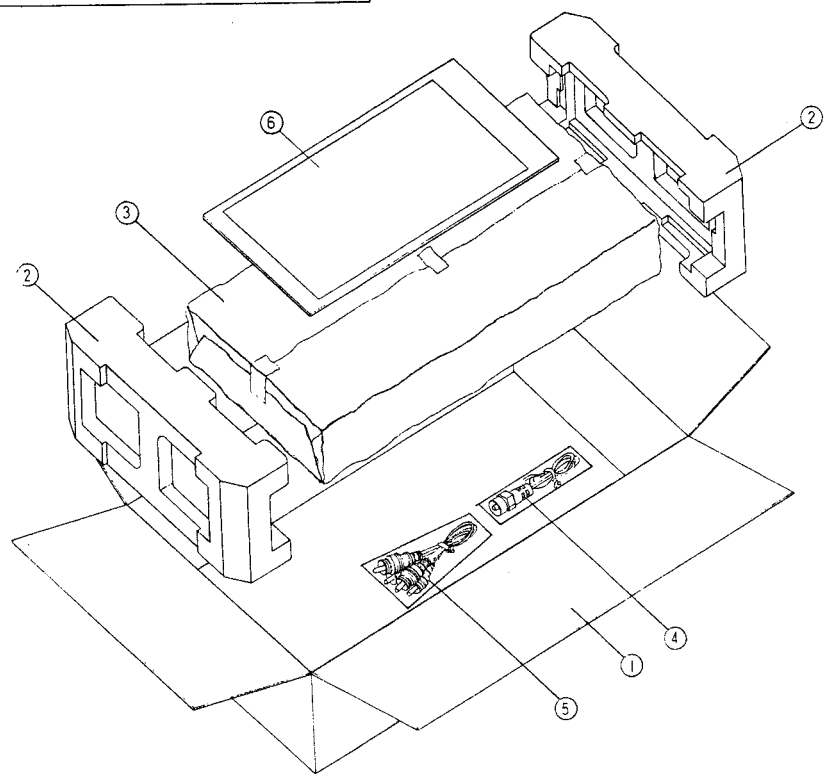
Parts List & Exploded View of Cabinet & Chassis

NO.	PARTS NO.	DESCRIPTION	Q'TY	POSITION
1	046122011011	COVER TOP	1	E3
2	6121601110	CHASSIS MAIN	1	B5
3	6335000410	FOOT RUBBER	3	B4,B5
4	6335000910	FOOT	1	C4
5	6705004220	SPACER	3	D4
6	6122210910	CHASSIS FRONT	1	B5
7	6505064610	BKT JACK PHONE	1	B3
8	046102017011	CHASSIS BACK	1	D6
9	4308001610	CORD AC POWER	1	E6
10	6513000310	STOPPER AC CORD	1	F5
11	4448100810	RECEPTACLE	1	E4
12	4465100110	TERMINAL GROUND	1	D6
13	4465100210	TERMINAL SCREW	1	E6
14	048602013611	PANEL FRONT	1	C1
15	048543006611	BOTTON PUSH(POWER)	1	B1
16	8545028310	BESEL BUTTON PUSH	1	C2
17	6555000740	SPRING	1	C1
18	048545028611	KNOB SLIDE	6	C1
19	048543006511	BUTTON PUSH(SPEAKER)	1	C3
20	6305002810	BUTTON SHAFT	1	C3
21	048543006811	BUTTON PUSH(FUNCTION)	7	A1
22	6555005010	SPRING	7	B1
23	048643001811	KNOB ROTARY	1	A2
24	048535006611	WINDOW LED(A)	1	A2
25	048535006711	WINDOW LED(B)	1	A2
26	048521002411	DECORATION PANEL	1	D2
27	048535006511	FILTER LED	1	A3
28	7503006110	H/SINK POWER	1	D5
29	6505064510	BKT H/SINK	2	D4,D5
30	7505202420	H/SINK REG TR	1	D4
31	4628041110	SWITCH PUSH(4KEYS)	1	D4
32	4628041610	SWITCH PUSH(3KEYS)	1	D4 D4
33	3208040210	VOLUME ROTARY	1	C5
34	4438100410	JACK RCA(4P)	1	C6
35	4438100510	JACK RCA(6P)	1	D5
36	4628041010	SWITCH PUSH(1KEYS)	1	D4
37	4235003610	GROUND PLATE	5	D3,D4,C5
38	6165101510	SHIELD FENCE	1	D4
39	4628005710	SWITCH POWER	1	E3
40	3238405610	SLIDE SWITCH 100KB · 2(TONE)	5	D3
41	32384006210	SLIDE SWITCH 100KSW (BALANCE)	1	C3
42	6505064710	BKT E/Q	1	D2
43	6065101710	PLATE E/O VR	1	D2
44	4408000910	TERMINAL SPEAKER	1	E5
45	4438000810	JACK PHONE	1	E3
46	4428300310	ADAPTER	1	E6
47	6515000630	HOLDER VOLTAGE	1	F5
48	8159440083	SCREW WSAM 4×8B	4	E1,D3
49	8069140101	SCREW WPM 4×10Y	4	B4
50	8019130151	SCREW PM 3×15Y	2	D4
51	8019130061	SCREW PM 3×6Y	2	D3
52	8019120033	SCREW PM 2×3B	12	C2
53	8159230081	SCREW #2 WPTC 3×8Y	3	B4,B5
54	8159230061	SCREW #2 WPTC 3×6Y	4	E4,D5
55	8109230141	SCREW #2 BTC 3×14Y	3	E4,D5
56	8109230161	SCREW #2 BTC 3×16Y	2	B4
57	8109230081	SCREW #2 BTC 3×8Y	3	D4,D5
58	8119230083	SCREW #2 PTC 3×8B	5	E5,E6
59	8119230081	SCREW #2 PTC 3×8Y	3	B3,D3
60	8119330063	SCREW #3 PTC 3×6B	2	E2
61	8109330061	SCREW #3 BTC 3×6Y	11	B2,A3,C3, D3,D4
62	8019330063	SCREW #3 BTC 3×6B	7	E5,D6,E6
63	8119330083	SCREW #3 PTC 3×8B	2	F5
64	8129330061	SCREW #3 FTC 3×6Y	3	C2,B3
65	8309030011	WASHER PLAIN φ3Y	2	D5
66	8319130011	WASHER SPRING φ3Y	2	D4
67	8209540011	NUT FLANGE M4Y	4	F4
68	6165101510	COVER INDULATION	1	E3
69	4618004100	SLIDE SWITCH(VOLTAGE)	1	E4
70	2828040301	POWER TRANSFORMER	1	E4
71	4002115140	PCB EQ LEVEL	1	D3
72	4002115150	PCB POWER METER	1	C4
73	4002115110	PCB VOLME	1	C5
74	4002115130	PCB H/P	1	E3
75	4002115160	PCB POWER SWITCH	1	E4
76	4002115100	PCB MAIN	1	C6
77	4002115120	PCB SPEAKER JACK	1	D5



Packing

NO.	PARTS NO.	DESCRIPTION	Q'TY	REMARKS
1	049605081103	BOX CARTON	1	CD5300
	049605079118		1	TD5110L
	049605080104		1	AD5250
2	9722010810	CUSHION POLY	2	CD5300
	9722011010		2	TD5110L
	9722011110		2	AD5250
3	9715000120	FILM SOFT PE	1	CD5300
	9715000110		1	TD5110L, AD5250
4	4348000510	ANT WIRE	1	TD5110L
5	4328200510	CORD RCA(BLACK)	2	CD5300
	4328200510		1	TD5110L
6		OPERATING INSTRUCTION		



Block Diagram